2

## AMENDMENT TO THE CLAIMS:

1. (Currently Amended) A molded electrode comprising:

an electrode material comprising a polymer active material, a conductivity-enhancing agent and a plasticizer; and

a current collector sheet,

the electrode material and the current collector sheet being molded into one piece, and the electrode material including comprises a thickness of 300 µm to 9 mm and formed on at least one side of the current collector sheet;

wherein said plasticizer comprises a material for facilitating molding of the electrode and enhancing the shape retainability after molding, and is present when the electrode is in operation.

2. (Previously Amended) A molded electrode comprising:

an electrode material comprising a polymer active material, a conductivity-enhancing agent and a plasticizer; and

a plurality of current collector sheets,

the electrode material and the current collector sheets being formed into one piece, and the current collector sheets being spaced from each other in the thickness direction of the electrode.

3. (Previously Amended) A molded electrode comprising:

an electrode material comprising a polymer active material, a conductivity-enhancing

3

agent and a plasticizer; and

at least one current collector sheet,

the electrode material and the current collector sheet being formed into one piece, and the ratio of the volume of the electrode material and the volume of the current collector sheet being within a range of 30:1 to 100:1, provided the volume of the terminal portion of the current collector sheet is excluded from the volume of the current collector sheet.

4.(Original) A molded electrode according to Claim 3, wherein the current collector sheet is two or more.

- 5. (Original) A molded electrode according to Claim 1, wherein the amount of the plasticizer is 2 to 15% by weight of the total of the electrode material.
- 6. (Original) A molded electrode according to Claim 2, wherein the amount of the plasticizer is 2 to 15% by weight of the total of the electrode material.
- 7. (Original) A molded electrode according to Claim 3, wherein the amount of the plasticizer is 2 to 15% by weight of the total of the electrode material.
- 8. (Previously Amended) A molded electrode according to Claim 1, wherein the electrode material has unevenness at the surface.
- 9. (Previously Amended) A molded electrode according to Claim 2, wherein the electrode

4

material has unevenness at the surface.

10. (Previously Amended) A molded electrode according to Claim 3, wherein the electrode material has unevenness at the surface.

11-16 (Canceled)

17. (Currently Amended) A The secondary battery using a molded electrode as set forth in according to claim 2, wherein said molded electrode comprises least either one of the a positive electrode and the a negative electrode.

18. (Original) A secondary battery using a molded electrode set forth in claim 2, as at least either of the positive electrode and the negative electrode.

19. (Original) A secondary battery using a molded electrode set forth in claim 3, as at least either of the positive electrode and the negative electrode.

20. (Previously Added) The molded electrode according to claim 1, wherein a predetermined ratio exists between a volume of said electrode material to a volume of said current collector sheet.

21.(Previously Added) The molded electrode according to claim 1, wherein said electrode material is hot pressed with said current collector sheet.

5

- 22. (Previously Added) The molded electrode according to claim 1, wherein said electrode material includes a porosity of 20-30% in volume.
- 23. (Previously Added) The molded electrode according to claim 1, wherein said current collector sheet comprises a thickness of no more than about 100µm.
- 24. (Previously Added) The molded electrode according to claim 1, wherein said current collector comprises at least one of a mesh structure and a metal foil.
- 25. (Previously Added) The molded electrode according to claim 2, wherein a distance between adjacent ones of said current collector sheets is unequal.
- 26. (Currently Amended) The molded electrode according to claim 1, wherein said electrode material comprises an uneven surface with which increases a surface area of larger than said electrode material.
- 27. (Previously Added) The molded electrode according to claim 1, wherein said polymer active material comprises at least one of an aniline, an aniline derivative, a pyrrole derivative, a thiopene, a thiopene derivative and polynapthylene.
- 28. (Previously Added) The molded electrode according to claim 1, wherein said plasticizer comprises an organic solvent with a boiling point of at least 200°C and a vapor pressure of no

703-761-2376

Serial No. 09/689,817 WAK.066

6

more than 5 mmHg at 85°C.

- 29. (Previously Added) The molded electrode according to claim 1, wherein said plasticizer comprises at least one of a dibutyl phthalate, butyl butylphthalyglcolate, diethylhexyl adipate and trioctyl trimellitate.
- 30. (Previously Added) The molded electrode according to claim 1, wherein said conductivity-enhancing agent comprises particles with a diameter of no more than  $20\mu m$ .
- 31. (Previously Added) The molded electrode according to claim 1, wherein a weight ratio is in the range 50:50 to 90:10 of said polymer active material to said conductivity-enhancing agent.
- 32. (Previously Added) The secondary battery according to claim 17, further comprising:

  an electrolytic solution situated around at least one of said positive electrode and said negative electrode.
- 33. (Previously Added) The secondary battery according to claim 32, wherein said electrolytic solution comprises at least one of a non-aqueous electrolytic solution, a neutral electrolytic solution, a proton-based electrolytic solution and an acidic aqueous solution.